

## The Cosine Ratio

Date: \_\_\_\_\_

For any right angled triangle, the cosine ratio is

Cosine A =  $\frac{\text{adjacent side length}}{\text{hypotenuse side length}}$

$$\cos A = \frac{adj}{hyp}$$

**Using your Calculator:**

**EX:** Find the cosine ratio rounded to four decimal places.

A.  $\cos 10^\circ$                       B.  $\cos 70^\circ$

**EX:** Find each angle measure to the nearest degree.

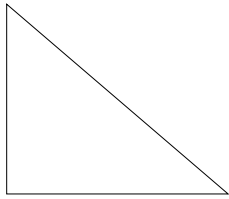
A.  $\cos \theta = 0.9821$                       B.  $\cos \theta = 0.1746$

**EX:** A ladder is 6.1m long. It leans against a wall. The angle formed by the ladder and the ground is  $71^\circ$ .

- A. How far is the foot of the ladder from the wall?
- B. How far up the wall does the ladder reach?

**EX:** Solve the following triangles:

**A.**



**B.**

